

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--|---|------------------|---------|------------------|
| L11 | 7 | (US-20030025179-\$ or US-20040149994-\$ or US-20040227155-\$).did. or (US-4958208-\$ or US-5412232-\$).did. or (JP-03289135-\$ or JP-04124830-\$).did. | US-PGPUB; USPAT; JPO | OR | OFF | 2005/05/25 14:43 |
| L12 | 1784 | indium gallium aluminum arsenide or gallium aluminum indium arsenide or aluminum indium gallium arsenide or gallium indium aluminum arsenide or indium aluminum gallium arsenide or aluminum gallium indium arsenide or InGaAlas or gaalinas or alingaas or gainalas or inalgaas or algainas | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | ADJ | OFF | 2005/05/25 14:43 |
| L13 | 3 | 11 and L12 | US-PGPUB; USPAT; JPO | OR | OFF | 2005/05/25 14:43 |
| L14 | 81 | (GaAsSb or gallium adj arsenide adj antimonide) with base | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | OFF | 2005/05/25 14:44 |
| L15 | 2 | 13 and L14 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | OFF | 2005/05/25 14:43 |
| L16 | 5 | 11 and (GaAsSb or gallium adj arsenide adj antimonide) with base | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | OFF | 2005/05/25 14:44 |
| L17 | 4 | 11 and (GaAsSb or gallium adj arsenide adj antimonide) with base and (indium adj phosphide InP) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | OFF | 2005/05/25 14:44 |
| L18 | 3 | 11 not 17 | US-PGPUB; USPAT | OR | OFF | 2005/05/25 14:45 |
| L19 | 0 | ("2002088993").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/05/25 15:10 |
| L20 | 0 | ("20020880993").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/05/25 15:11 |
| L21 | 1 | ("20020088993").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/05/25 15:11 |

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|-----|------|--|---|----|-----|------------------|
| L22 | 2 | JP-05304165-\$.did. | JPO; DERWENT | OR | OFF | 2005/05/25 15:19 |
| L23 | 4 | ((("20020070390") or ("20020088993") or ("6,670,653") or ("4,670,767")).PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/05/25 15:19 |
| S1 | 2666 | electron adj affinity | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/05/25 09:30 |
| S2 | 363 | S1 and gallium and arsenide | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/05/25 09:20 |
| S3 | 69 | S1 and gallium and arsenide and phosphide | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/05/25 09:26 |
| S4 | 36 | S1 and gallium and arsenide and phosphide not negative adj electron adj affinity | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/05/25 09:29 |
| S5 | 0 | "4016586" and HBT | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/05/25 09:29 |
| S6 | 20 | "4016586" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/05/25 09:30 |
| S7 | 0 | "4016586" and bipolar | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/05/25 09:29 |
| S8 | 3 | S1 and S6 | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/05/25 09:30 |
| S9 | 17 | "4958208" | US-PGPUB; USPAT | OR | OFF | 2005/05/25 09:37 |
| S10 | 2 | S1 and S9 | US-PGPUB; USPAT | OR | OFF | 2005/05/25 09:39 |
| S11 | 37 | S2 and (bipolar HBT) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/05/25 10:22 |

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| S15 | 5 | US-20040227155-\$ US-20020070390-\$ US-4670767-\$ JP-05304165-\$ JP-05326546-\$ | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | OFF | 2005/05/25 10:25 |
| S16 | 1 | S15 and affinity | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | OFF | 2005/05/25 10:59 |
| S17 | 2779 | (antimony antimonide) and (hbt bipolar) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | OFF | 2005/05/25 10:58 |
| S18 | 2864 | (antimon\$5) and (hbt bipolar) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | OFF | 2005/05/25 11:07 |
| S19 | 107 | S17 and affinity | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | OFF | 2005/05/25 11:06 |
| S20 | 627 | GaAsSb or gallium adj arsenide adj antimonide | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | OFF | 2005/05/25 11:08 |
| S21 | 121 | S20 and (hbt bipolar) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | OFF | 2005/05/25 11:08 |
| S22 | 117 | S21 not S19 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | OFF | 2005/05/25 11:08 |
| S23 | 81 | (GaAsSb or gallium adj arsenide adj antimonide) with base | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | OFF | 2005/05/25 14:43 |
| S24 | 75 | S23 and (hbt bipolar) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | OFF | 2005/05/25 11:08 |

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|-----|------|--|---|-----|-----|------------------|
| S25 | 73 | S24 not S19 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | OFF | 2005/05/25 15:10 |
| S26 | 1784 | indium gallium aluminum arsenide or gallium aluminum indium arsenide or aluminum indium gallium arsenide or gallium indium aluminum arsenide or indium aluminum gallium arsenide or aluminum gallium indium arsenide or InGaAlas or gaalinas or alingaas or gainalas or inalgaas or algainas | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | ADJ | OFF | 2005/05/25 11:27 |
| S28 | 3170 | (257/85,94,96,183,187,189-191, 197-198).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/05/25 12:22 |